

Release notes for ENDF/B Development e-067\_Ho\_000  
evaluation

**ENDF**  
**B-VII**.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle  
*Reading ENDF file: ../e-067\_Ho\_000.endf (Error # 0): ZAP messed up*  
  
WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message  
*reaction label 1: e- + Ho + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)*  
  
WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message  
*reaction label 2: e- + Ho [excitation] / Product: e- (Error # 0): Generic unimp (c)*  
  
WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree  
*reaction label 0: e- + Ho [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree  
*reaction label 1: e- + Ho + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree  
*reaction label 2: e- + Ho [excitation] / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree  
*reaction label 3: e- + e- + Ho1s1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55699. eV!
5. Calculated and tabulated thresholds don't agree  
*reaction label 4: e- + e- + Ho2s1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9360.200000000001 eV!
6. Calculated and tabulated thresholds don't agree  
*reaction label 5: e- + e- + Ho2p1/2 / Cross section: (Error # 0): Threshold mismatch*  
  
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8928.700000000001 eV!
7. Calculated and tabulated thresholds don't agree  
*reaction label 6: e- + e- + Ho2p3/2 / Cross section: (Error # 0): Threshold mismatch*

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8061.7 eV!
8. Calculated and tabulated thresholds don't agree  
*reaction label 7:  $e^- + e^- + Ho3s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2102.5 eV!
9. Calculated and tabulated thresholds don't agree  
*reaction label 8:  $e^- + e^- + Ho3p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1910.4 eV!
10. Calculated and tabulated thresholds don't agree  
*reaction label 9:  $e^- + e^- + Ho3p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1728.5 eV!
11. Calculated and tabulated thresholds don't agree  
*reaction label 10:  $e^- + e^- + Ho3d3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1395.2 eV!
12. Calculated and tabulated thresholds don't agree  
*reaction label 11:  $e^- + e^- + Ho3d5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1355.3 eV!
13. Calculated and tabulated thresholds don't agree  
*reaction label 12:  $e^- + e^- + Ho4s1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 420.35 eV!
14. Calculated and tabulated thresholds don't agree  
*reaction label 13:  $e^- + e^- + Ho4p1/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 343.05 eV!
15. Calculated and tabulated thresholds don't agree  
*reaction label 14:  $e^- + e^- + Ho4p3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 302.2 eV!
16. Calculated and tabulated thresholds don't agree  
*reaction label 15:  $e^- + e^- + Ho4d3/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 173.63 eV!
17. Calculated and tabulated thresholds don't agree  
*reaction label 16:  $e^- + e^- + Ho4d5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 166.23 eV!
18. Calculated and tabulated thresholds don't agree  
*reaction label 17:  $e^- + e^- + Ho4f5/2$  / Cross section: (Error # 0): Threshold mismatch*
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.8 eV!

19. Calculated and tabulated thresholds don't agree  
*reaction label 18:  $e^- + e^- + Ho4f7/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.73 eV!

20. Calculated and tabulated thresholds don't agree  
*reaction label 19:  $e^- + e^- + Ho5s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.19 eV!

21. Calculated and tabulated thresholds don't agree  
*reaction label 20:  $e^- + e^- + Ho5p1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.89 eV!

22. Calculated and tabulated thresholds don't agree  
*reaction label 21:  $e^- + e^- + Ho5p3/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 28.58 eV!

23. Calculated and tabulated thresholds don't agree  
*reaction label 22:  $e^- + e^- + Ho6s1/2$  / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.42 eV!

- **xsectplotter** Warnings:

1. Mislabeled emitted particle  
*Error: ZAP messed up*

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0  
 ... [4 more lines]